

# *Curriculum vitae*

***Professor Roger Ekins***

***University College London Medical School***

***February 1998***

# CURRICULUM VITAE

Name: Roger Philip EKINS

Place of Birth: Westminster

Professional address: Department of Molecular Endocrinology  
University College London Medical School  
Mortimer Street  
LONDON W1N 8AA, UK

Degrees: BA (Cantab) 1947  
MA (Cantab) 1954  
PhD (London) 1963  
DSc (London) 1990

## Present appointments:

*University of London:* Emeritus Professor of Biophysics  
Head of Department of Molecular Endocrinology, UCLMS  
Examiner (MD, PhD) for the Board of Studies in Biophysics  
*NHS:* Honorary Consultant, The Middlesex Hospital, London

## Past appointments:

- 1949 Lecturer, Department of Physics Applied to Medicine, The Middlesex Hospital Medical School
- 1961 Lecturer/Senior Lecturer, Institute of Nuclear Medicine, The Middlesex Hospital Medical School
- 1968 Reader and Deputy Director, Institute of Nuclear Medicine, The Middlesex Hospital Medical School
- 1972 Professor of Biophysics, University of London
- 1972 Director, UK Supraregional Assay Service Centre, The Middlesex Hospital Medical School
- 1974 Chairman, Committee of Directors, UK Supraregional Assay Service (Hormones).
- 1976 Head, Department of Molecular Endocrinology, The Middlesex Hospital Medical School
- 1988 Head, Department of Molecular Endocrinology, University College London Medical School

## Honours and Awards:

1972 Society for Endocrinology Medal, Society for Endocrinology, UK  
1979 Senior Investigator Award, Clinical Radioassay Society, USA  
1979 Distinguished Lecturer Award, American Nuclear Medicine Society  
1984 Georg von Hevesy Medal, von Hevesy Foundation, Switzerland  
1986 David Curnow Memorial Lecture, Australian ACB  
1990 Inaugural Foundation Award, Association of Clinical Biochemists, UK  
1990 Honorary membership, European Nuclear Medicine Society  
1991 Prince of Wales Award for Innovation, UK  
1992 Toshiba Year of Invention Award, UK  
1993 Docteur Honoris Causa, Université Claude Bernard, Lyon, France  
1993 Distinguished Clinical Chemist Award, International Federation of Clinical Chemistry  
1995 Honorary membership, Association of Clinical Biochemists, UK  
1996 Veall Medal, British Nuclear Medicine Society  
1996 Vikram Sarabhai Memorial Oration Award, Indian Nuclear Medicine Society  
1997 Honorary Presidency, European Ligand Assay Society.  
1998 Dale Medal, Society for Endocrinology, UK  
1998 Edwin F Ullman Award, American Association of Clinical Chemistry

## Membership of Learned and Professional Societies:

Society for Endocrinology, UK  
European Thyroid Association  
Association of Clinical Biochemists (Honorary), UK  
American Association for Clinical Chemistry  
American Association for the Advancement of Science  
British Nuclear Medicine Society (Honorary)  
European Nuclear Medicine Society  
European Ligand Assay Society (Honorary President)  
Clinical Ligand Assay Society, USA  
Thyroid Club, London, UK  
Medical Research Society, UK

## Consultancies and Appointments with United Nations Agencies:

### *World Health Organization:*

Joint Director of Collaborating Centre on Human Reproduction (until 1982): Department of Molecular Biophysics/Department of Endocrinology, (Chelsea Hospital for Women)  
Member of WHO Steering Committee for Special programme of Research, Development and Research Training in Human Reproduction and Programme on Standardisation and Quality Control of Laboratory Procedures

### *International Atomic Energy Agency:*

Establishment of *in vitro* radioassay laboratories in developing countries  
Coordination of research on *in vitro* assay methodology

## International Teaching:

### *International Atomic Energy Agency:*

Visiting Professor (six months), Chulalongkorn University, Bangkok, Thailand (1966-1967)  
Director of Studies, RIA course, Kandy, Sri Lanka (1979)  
Introductory RIA course, East Berlin, DDR (1980)  
Course Director, "Teach the Teachers Course in RIA", Beijing, China (1985)  
Course Co-Director, RIA of Thyroid Related Hormones, Bangkok, Thailand ( 1992)

### *World Health Organization:*

Courses on "Standardisation, Design and Quality Control of RIA":

Bangkok, Thailand (1976)  
San Jose, Costa Rica (1977)  
West Berlin, FDR (1977)  
Singapore (1978)  
Delhi, India (1978)  
Moscow, USSR (1980)  
Mexico City, Mexico (1981)  
Beijing, China (1981)

### *World Health Organization/Atomic Energy Commission of Argentina:*

Director of Studies, RIA course, Buenos Aires (1979).

### *Italian Ministry of Public Education:*

Visiting Professor, University of Catania, Italy (April - June 1985): Courses on Immunoassay in Endocrinology.

### *British Council:*

Director of Studies "Radioisotopic and Labelled Reagent: Microanalytical Methods used in Medical Research and Clinical Diagnosis". International Courses: London: Jan. 1972, Jan. 1974, Oct. 1976, Nov. 1978, Mar. 1980.

## Principal Research Interests and Contributions:

### *1. Ligand/Immuno assay*

Independent inventor *ca.* 1957-60 (with Drs. Berson & Yalow, USA) of isotopically-based 'binding assay methods including, *inter alia*, protein binding and radioimmunoassay methods, and later extended to DNA analysis. Recent inventor (1986) of antibody and oligonucleotide microarray technologies now under intensive development with Boehringer Mannheim-Roche

### *2. Effect of maternal hormones on early foetal brain development*

Demonstration of long term effects of maternal hormones on foetal brain development based on a new hypothesis regarding the (unknown) physiological role of hormone binding proteins.

## Publications:

Over 400 publications relating to ligand assay methodology and foetal brain development.